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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/686,907	10/17/2003	Piero Del Soldato	026220-00039	7509	
4372 ARFNT FOX I	4372 7590 07/06/2007 ARENT FOX PLLC			EXAMINER	
1050 CONNECTICUT AVENUE, N.W.			CHONG, YONG SOO		
	SUITE 400 WASHINGTON, DC 20036		ART UNIT	PAPER NUMBER	
	, = 2 =		1617		
,			MAN DATE	DELIVERY MODE	
		•	MAIL DATE	DELIVERY MODE	
			07/06/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/686,907					
Office Action Summary	Examiner	DEL SOLDATO ET AL.				
		Art Unit				
The MAILING DATE of this communication app	Yong S. Chong ears on the cover sheet with the c	1617				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D. (35 U.S.C. 8 133)				
Status						
1) Responsive to communication(s) filed on <u>04 May 2007</u> .						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-6</u> is/are pending in the application.						
4a) Of the above claim(s) <u>3</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) 1,2 and 4-6 is/are rejected.						
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
o/ Claim(s) are subject to restriction and/or	relection requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
dee the attached detailed Office action for a list of	or the certified copies not receive	a.				
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4) Interview Summary Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 8/10/04.	5) Notice of Informal P 6) Other:					

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DETAILED ACTION

Status of the Application

This Office Action is in response to applicant's response filed on 5/4/2007. Applicant's election with traverse of the restriction requirement in the reply is acknowledged. The traversal is on the ground(s) that the compounds of formula I belong to two specific therapeutic classes, namely NSAIDs and diuretics. This is not found persuasive because although the compounds may or may not have the same therapeutic properties, there is no common structural core among the various compounds. Therefore, a search for one compound will not lead to information regarding another and vice versa. The requirement is still deemed proper and is therefore made FINAL. Claim(s) 1-6 are pending. Claim(s) 3 is withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. Claim(s) 1 (in part), 2, 4, 5-6 (in part) are examined herein insofar as they read on the elected invention and species.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 6 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 6 recites "groups IA) to VIA)" without a corresponding structure or formula or any reference to a previous claim.

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Claim 6 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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The claim(s) provide for the use of the claimed invention, but since the claim(s) does not set forth any steps involved in the method/process, it is unclear what method/process applicant is intending to encompass. A claim is indefinite where it merely recites a use without any active, positive steps delimiting how this use is actually practiced.

Claim 6 is also rejected under 35 U.S.C. 101, because the claimed recitation of a use without setting forth any steps involved in the process, results in an improper definition of a process, i.e., results in a claim which is not a proper process claim under 35 U.S.C. 101. See for example *Ex parte Dunki*, 153 USPQ 678 (Bd. App. 1967) and *Clinical Products, Ltd. V. Brenner*, 255 F. Supp. 131, 149 USPQ 475 (D.D.C. 1966).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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The factual inquiries set forth in Graham vs John Deere Co., 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claim(s) 1 (in part), 2, 4, 5-6 (in part) are rejected under 35 U.S.C. 103(a) as being obvious over Del Soldato et al. (WO 95/30641) in view of Ara et al. ("Cyclooxygenase and lipoxygenase inhibitors in cancer therapy" *Prostaglandins*, Leukotrienes and Essential Fatty Acids, 1996, 54, 3-16).

The instant claims are directed to a method of treating gastrointestinal tumors by administering a compound of formula I, where X=O, R is subgroup VIA and formula Ia.

Del Soldato et al. disclose cyclooxygenase (COX) inhibitors (pg. 1) of the formula $A-X_1-NO_2$, where $A=R(COX_u)_t$ and X=O. A preferred compound is where R is formula la, where t and u are 1, and R_1 is $OCOR_3$ in the ortho position, wherein R_3 is methyl and R_2 is H. Also, X_1-NO_2 is a 6-membered cycloalkyene, substituted with a nitroxymethyl group at the 3 position (claims).

However, Del Soldato et al. fail to disclose specifically treating gastrointestinal tumors.

Ara et al. disclose the general teaching that cyclooxygenase inhibitors are used in cancer therapy, specifically for tumors of the colon (pg. 3, left column and pg. 6, left column).

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Therefore, it would have been prima facie obvious to a person of ordinary skill in the art, at the time the claimed invention was made, to have administered a compound of formula I, where X=O, R is subgroup VIA and formula Ia to treat gastrointestinal tumors.

A person of ordinary skill in the art would have been motivated to administer a compound of formula I, where X=O, R is subgroup VIA and formula Ia to treat gastrointestinal tumors because: (1) both Del Soldato and Ara et al. are analogous art since they both disclose cyclooxygenase inhibitors; (2) Ara et al. disclose the general teaching that cyclooxygenase inhibitors are used in treating tumors of the colon; and (3) Del Soldato et al. disclose a compound of formula I, where X=O, R is subgroup VIA and formula Ia as a cyclooxygenase inhibitor. Therefore, the skilled artisan would have had a reasonable expectation of success in treating colon tumors by administering a compound of formula I, where X=O, R is subgroup VIA and formula Ia.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yong S. Chong whose telephone number is (571)-272-8513. The examiner can normally be reached on M-F, 9-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, SREENI PADMANABHAN can be reached on (571)-272-0629. The fax phone number for the organization where this application or proceeding is assigned is (571)-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

YSC

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